CLAIMS

- 1) A polymerizing lamp for polymerizing dental compounds, the polymerizing lamp comprising optical means (7) for polymerizing said compounds; logic control means (40) for selectively controlling said optical means (7); and a supporting member (2) for supporting said optical means (7) and said logic control means (40); the supporting member (2) comprising two bodies (3, 4), and connecting means (5) for connecting the bodies (3, 4) to each other; and the polymerizing lamp being characterized in that said connecting means (5) comprise joint means (36) enabling said bodies (3, 4) to move with respect to each other between at least two operating positions.
- 2) A polymerizing lamp as claimed in Claim 1, wherein said bodies (3, 4) have respective longitudinal axes (6, 26), which are substantially parallel to each other when said bodies (3, 4) are in a first of said operating positions, and which form an angle (b) of other than 0° when said bodies (3, 4) are in a second of said operating positions.
 - 3) A polymerizing lamp as claimed in Claim 2, wherein one of said bodies (3, 4) comprises a seat (35) having a given further longitudinal axis (17), and the other of said bodies (3, 4) comprises a shank (23) inserted inside said seat (35), connected in rotary and axially sliding manner to the seat (35), and defining, together with the seat (35), said joint means (36).

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- 4) A polymerizing lamp as claimed in Claim 4, wherein each said axis (6, 26) forms a further angle (a) of other than 0° with said further axis (17).
- 5) A polymerizing lamp as claimed in Claim 3, wherein said connecting means (5) comprise retaining means (37, 38, 39) for making said shank (23) and said seat (35) angularly integral with each other.
- 6) A polymerizing lamp as claimed in Claim 5, wherein said bodies (3, 4) comprise respective end faces 34) facina each other and substantially perpendicular to said further axis (17); said retaining means (37, 38, 39) comprising at last two recesses (39) formed on a first said face (21), at least one tooth (37) formed on a second said face (34) and movable to and from a retaining position wherein the tooth (37) engages a said recess (39), and elastic thrust means (38) acting on said tooth (37) to keep the tooth (37) normally in said retaining position.
- 7) A polymerizing lamp as claimed in Claim 1,
 20 wherein said optical means (7) are housed inside a first
 said body (3), and said logic control means (40) are
 housed inside a second said body (4).
 - 8) A polymerizing lamp as claimed in Claim 1, wherein said optical means (7) comprise a light source (8) in turn comprising at least one LED (10) for emitting blue light in the 400 nm to 540 nm wavelength range.
 - 9) A polymerizing lamp as claimed in Claim 1, wherein said optical means (7) comprise a light source

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- (8) in turn comprising at least one so-called organic LED comprising two conducting electrodes and an organic material located between the electrodes, and for emitting blue light in the 400 nm to 540 nm wavelength range when electric current flows between the electrodes.
- 10) A polymerizing lamp as claimed in Claim 8, wherein said optical means (7) also comprise an output optical fibre (11) for directing the light from said light source (8) towards the oral cavity of a patient; and an optical coupling device (13) interposed between the light source (8) and the optical fibre (11).
- 11) A polymerizing lamp as claimed in Claim 1, and also comprising electric connecting means for connecting the polymerizing lamp to a dental unit.
- 12) A polymerizing lamp as claimed in Claim 1, and also comprising a battery for electrically powering the polymerizing lamp.

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